InRoads - Updating Geometry Alignments to Revised Geometry Styles

Version: 8.5 & XM

At times it is necessary for WSDOT CAE to modify the names of standard data types in the CAE environment. Such modifications may be due to changes in terminology, requirements of one of the CAE applications changing or just to correct mistakes.

When a standard data type name is changed, all the attributes of the data type are affected. For instance when PM_MN_Mounument was corrected to PM_MN_Monument, the survey definition, named symbology, feature style, level name and cell name all needed to be updated in the resources.

On the data side of things all data that had the old incorrect standard data type name needs to be updated to reflect the corrected name. So geometry styles need to be re-assigned and MicroStation data needs to be moved to the corrected level and the old incorrect cell needs to be replaced with the new correct one. Most of this can be accomplished with some simple steps.

Please remember that the basic integrity of the InRoads geometry remains intact. All that is affected is how they display. Until they are updated these geometry elements will display as solid white lines without their proper line styles, level, weight, and color.

Basic Workflow

Before editing data, remember to create a backup copy of your files.

Horizontal and Vertical Geometry

1. **Update Project Resources**
   For version 8.5, make sure your project's **geo_wsdot.ini** file is up to date by running the IPFSynch utility. See *c:\cae_rsc\inroads\utilities\help\ipfsynch.pdf* for more information on this utility.

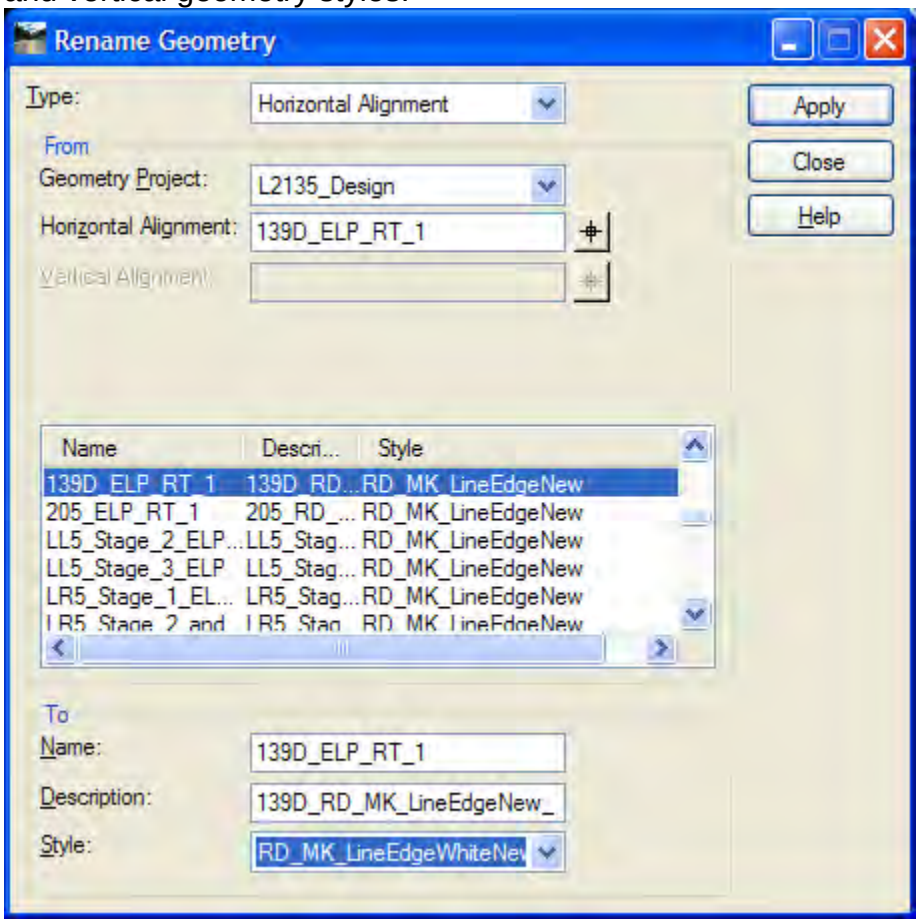
   For version XM, project specific **XIN** files must be synched with the latest WSDOT standard XIN. The *Tools=>Copy Preferences* command is used for this and detailed instructions are available by viewing this tech note: InRoadsXM-UpdatingProjectXIN

2. Activate a geometry project.

3. View all horizontal alignments. Since any non-standard geometry will display on the **Default** level use the MicroStation **Level Display** to turn off all other levels. Set the active level to Default then right mouse click in the Levels dialog and select **All Off**. This will help in isolating just the information requiring updating.

4. If there is information to be updated, assign the new style(s) using the C:*cae_rsc\inroads\Standards\Changed Levels - By Old Level.pdf* or *Changed Levels - By Update Date. PDF* to determine the new geometry style.
   These files contain the same information; with one sorting alphabetically by **level** and the other sorting by **update date**.

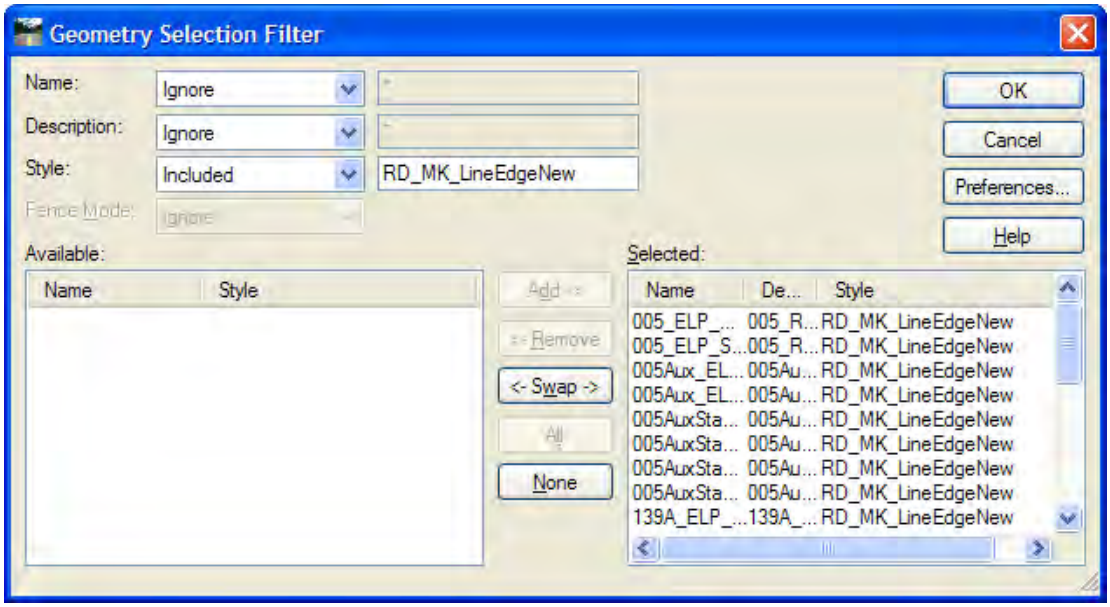
5. There is only one way to update geometry styles in 8.5 which unfortunately does not allow for bulk renaming. Use the *Geometry=>Rename Geometry* command to change both horizontal and vertical geometry styles.



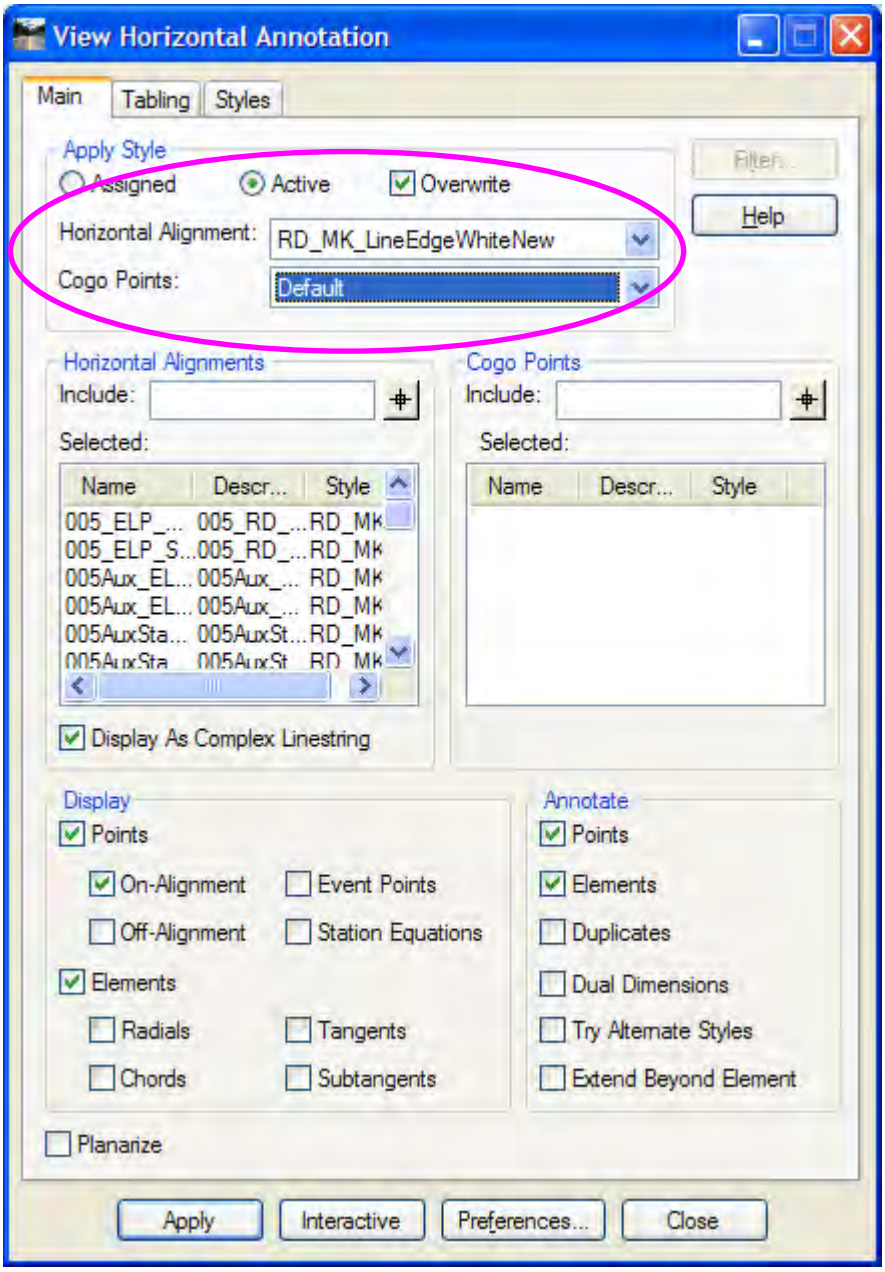
6. XM alignment styles can be renamed using the same *Geometry=>Rename Geometry* command, but XM also allows for bulk renaming of horizontal geometry styles via the *Geometry=>View Geometry=>Horizontal Annotation* command. Click in the Include box

of the horizontal Alignments field. This will activate the Filter button. Use the Filter dialog to select the alignments to change. Then under the **Apply Style** section of the main dialog check the **Active** and **Overwrite** boxes and select the new style. Click **Apply**. This both views the horizontal(s) while at the same time changing the style definition.

With large projects containing lots of alignments using any combination of **Name**, **Description** or **Style** filter options can be employed to help select groups of alignments with similar styles to change.



In this example the **Style** filter option is used to isolate **RD_MK_LineEdgeNew** for updating. The new style name is **RD_MK_LineEdgeWhiteNew**



7. **Vertical geometry** styles in XM can only be changed using the *Geometry=>Rename Geometry* command.

8. As a check, view all horizontals again and see if any are written to the Default Level. Save the geometry project(s) to disk.

For questions or comments on this tech note, contact your regional CAE Support Coordinator.